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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-09-01-02** **Date: 03-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Ramachandrapura area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri.A.Puttaraju, #48/5, Pipeline B Cross, Bhabalingara, Jalahalli, Bangalore-560013.
Customer's Reference	:	BBMP/EE/BTP/WO/98/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-09-18
Sample ID No	:	2018-09-01-02 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	01-09-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	533	639	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	548	662	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.883	562	672	20.0%	Satisfactory	Satisfactory

Note:

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP Bangalore-97

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-09-01-02 **Date: 05-09-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri.A.Puttaraju, #48/5, Pipeline B Cross, Bhabalingara, Jalahalli, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/98/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-09-18

Sample ID No : 2018-09-01-02 /05

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 01/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.48	100.03	1.245	4474	82.6	18.5	17.2	21.5
2	Cover Slab-2	75.41	100.05	1.298	4465	80.9	18.1	16.8	21.1
3	Cover Slab-3	75.48	100.08	1.288	4474	83.1	18.6	17.3	21.6

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-01-02** **Date: 03-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Ramachandrapura area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri.A.Puttaraju, #48/5, Pipeline B Cross, Bhabalingara, Jalahalli, Bangalore-560013.
Customer's Reference	:	BBMP/EE/BTP/WO/98/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-09-18
Sample ID No	:	2018-09-01-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	01-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.42	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.1	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	140 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-01-02** **Date: 08-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Ramachandrapura area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri.A.Puttaraju, #48/5, Pipeline B Cross, Bhabalingara, Jalahalli, Bangalore-560013.
Customer's Reference	:	BBMP/EE/BTP/WO/98/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-09-18
Sample ID No	:	2018-09-01-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	01-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-01-02** **Date: 04-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Ramachandrapura area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri.A.Puttaraju, #48/5, Pipeline B Cross, Bhabalingara, Jalahalli, Bangalore-560013.
Customer's Reference	:	BBMP/EE/BTP/WO/98/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-09-18
Sample ID No	:	2018-09-01-02 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	377	377	2.5	97.5	90-100
3	20 mm	6758	7135	47.6	52.4	30-70
4	10 mm	4711	11846	79.0	21.0	10-35
5	4.75 mm	2618	14464	96.4	3.6	0-5
6	Pan	536	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-01-02** **Date: 04-09-18**

Sample ID No : 2018-09-01-02 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.2	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.41	_
5	Bulk Density(Compacted) (Kg/l)	1.46	_
6	Water Absorption(%)	0.31	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-01-02** **Date: 03-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Ramachandrapura area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri.A.Puttaraju, #48/5, Pipeline B Cross, Bhabalingara, Jalahalli, Bangalore-560013.
Customer Reference	:	BBMP/EE/BTP/WO/98/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-09-18
Sample ID No	:	2018-09-01-02 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	215	215	4.3	95.7	90-100
3	10 mm	3185	3400	68.0	32.0	25-55
4	4.75 mm	1444	4844	96.9	3.1	0-10
5	Pan	156	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-01-02** **Date: 03-09-18**

Sample ID No : 2018-09-01-02 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.8**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.4**	
3	Specific Gravity	**2.61**	_
4	Bulk Density(Loose) (Kg/l)	**1.39**	_
5	Bulk Density(Compacted) (Kg/l)	**1.47**	_
6	Water Absorption(%)	**0.31**	_
7	Aggregate crushing Value(%)	**24.8**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**24.3**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-09-01-02** **Date: 03-09-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri.A.Puttaraju, #48/5, Pipeline B Cross, Bhabalingara, Jalahalli, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/98/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-09-18

Sample ID No : 2018-09-01-02 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 01-09-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	133	154	15.4	84.6	60-95	75-100	85-100	95-100
4	1.18 mm	203	357	35.7	64.3	30-70	55-90	75-100	90-100
5	600 micron	231	588	58.8	41.2	15-34	35-59	60-79	80-100
6	300 micron	251	839	83.9	16.1	5-20	8-30	12-40	15-50
7	150 micron	125	964	96.4	3.6	0-10	0-10	0-10	0-15
8	Pan	36	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-09-01-02** **Date: 03-09-18**

Sample ID No : 2018-09-01-02 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.26	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-06-02** **Date: 12/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri.A.Puttaraju, #48/5, Pipeline B Cross, Bhabalingara, Jalahalli, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/98/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-09-18

Sample ID No : 2018-09-06-02 /01

Customer ID : M20 Concrete(RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete(RMC)	M20	05/09/2018	12/09/2018	150.11 X 149.65 X 150.24	22464	8.144	395.4	17.6	17.9
2	M20 Concrete(RMC)	M20	05/09/2018	12/09/2018	151.26 X 149.78 X 150.63	22655	8.163	419.1	18.5	
3	M20 Concrete(RMC)	M20	05/09/2018	12/09/2018	150.42 X 150.11 X 149.62	22580	8.196	397.4	17.6	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-06-02** **Date: 12/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri.A.Puttaraju, #48/5, Pipeline B Cross, Bhabalingara, Jalahalli, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/98/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-09-18

Sample ID No : 2018-09-06-02 /02

Customer ID : M20 Concrete(RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete(RMC)	M20	05/09/2018	12/09/2018	151.03 X 151.04 X 151.45	22812	8.201	385.5	16.9	17.5
2	M20 Concrete(RMC)	M20	05/09/2018	12/09/2018	149.87 X 150.22 X 151.64	22513	8.169	391.7	17.4	
3	M20 Concrete(RMC)	M20	05/09/2018	12/09/2018	150.63 X 150.74 X 150.99	22706	8.089	411.0	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-06-02** **Date: 12/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri.A.Puttaraju, #48/5, Pipeline B Cross, Bhabalingara, Jalahalli, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/98/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-09-18

Sample ID No : 2018-09-06-02 /03

Customer ID : M20 Concrete(RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete(RMC)	M20	05/09/2018	12/09/2018	149.68 X 151.23 X 151.42	22636	8.175	382.6	16.9	17.2
2	M20 Concrete(RMC)	M20	05/09/2018	12/09/2018	150.45 X 149.86 X 150.13	22546	8.201	385.5	17.1	
3	M20 Concrete(RMC)	M20	05/09/2018	12/09/2018	151.20 X 149.87 X 151.45	22660	8.115	396.6	17.5	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-06-02** **Date: 12/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri.A.Puttaraju, #48/5, Pipeline B Cross, Bhabalingara, Jalahalli, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/98/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-09-18

Sample ID No : 2018-09-06-02 /04

Customer ID : M20 Concrete(RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete(RMC)	M20	05/09/2018	12/09/2018	149.05 X 151.42 X 151.36	22569	8.201	413.0	18.3	17.9
2	M20 Concrete(RMC)	M20	05/09/2018	12/09/2018	151.42 X 151.02 X 150.00	22867	8.176	397.9	17.4	
3	M20 Concrete(RMC)	M20	05/09/2018	12/09/2018	149.75 X 150.02 X 151.63	22465	8.193	406.6	18.1	

Note:

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-06-02** **Date: 12/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri.A.Puttaraju, #48/5, Pipeline B Cross, Bhabalingara, Jalahalli, Bangalore-560013.

Customer's Reference : BBMP/EE/BTP/WO/98/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-09-18

Sample ID No : 2018-09-06-02 /05

Customer ID : M20 Concrete(RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete(RMC)	M20	05/09/2018	12/09/2018	149.87 X 150.02 X 150.46	22483	8.112	418.2	18.6	17.8
2	M20 Concrete(RMC)	M20	05/09/2018	12/09/2018	150.56 X 150.21 X 150.28	22616	8.165	389.0	17.2	
3	M20 Concrete(RMC)	M20	05/09/2018	12/09/2018	151.46 X 150.63 X 150.23	22814	8.175	401.5	17.6	

Note:

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****